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What is claimed is:

1. An apparatus for spreading electromagnetic interference associated with an electrical system over a range of frequencies, the electrical system having a pulse width modulator that provides a clock signal and having a power source connected to the pulse width modulator, the apparatus comprising:
 - a binary counter having a clock input and a plurality of outputs, wherein the clock signal is operatively coupled to the clock input;
 - a plurality of resistors, wherein each of the resistors is coupled to an output of the binary counter and coupled to a node;
 - a timing resistor coupled between a first voltage potential and the node;
 - a timing capacitor coupled between the node and a second voltage potential;
 - and
 - wherein the node is coupled to an input of the pulse width modulator.
2. The apparatus of claim 1, wherein the binary counter is a unidirectional counter.
3. The apparatus of claim 1, wherein the binary counter is an up/down counter.
4. The apparatus of claim 1, wherein each of the plurality of parallel resistors is binary weighed and includes a base value and a multiplier value.
5. The apparatus of claim 4, wherein the base value is between approximately 100 and 1000 kilohms.
6. The apparatus of claim 1, wherein the timing resistor has a value between approximately 1.0 and 10.0 kilohms.

7. The apparatus of claim 1, wherein the timing capacitor has a value in the range of approximately 0.1 and 10.0 nanofarrads.
8. The apparatus of claim 1, further comprising:
a resistor divider network comprising:
a first resistor connected to the clock signal of the pulse width generator;
a second resistor connected between the first resistor and a third voltage; and
wherein the clock input of the binary counter is operatively coupled between the first and the second resistors.
9. The apparatus of claim 8, wherein the first and second resistors each have a value between approximately 1.0 and 50.0 kilohms.
10. An apparatus creating a pulse train signal of a pulse width modulator whose fundamental frequency is time-varying, the apparatus comprising:
a power source coupled to the pulse width modulator;
a resistor/capacitor network coupled to the pulse width modulator, the resistor/capacitor network having a resistor/capacitor time constant;
incrementing means for incrementing a binary count; and
altering means coupled between the incrementing means and the resistor/capacitor network for altering the resistor/capacitor time constant to correspondingly time-vary the fundamental frequency of the pulse train signal of the pulse width modulator.

11. The apparatus of claim 10, wherein the altering means further comprise:
a plurality of resistors, wherein each of the resistors is coupled to an output
of a binary counter and coupled to a first voltage potential.
12. A system comprising:
a power source;
a pulse width modulator coupled to the power source, the pulse width
modulator providing a pulse train signal at an output;
a binary counter coupled to the pulse width modulator, the binary counting
having an input and a plurality of outputs, wherein the pulse train
signal is operatively coupled to the input;
a plurality of resistors, wherein each of the resistors is operatively coupled to
a corresponding output of the binary counter and operatively coupled
to a node;
a timing resistor operatively coupled between a first voltage potential and
the node;
a timing capacitor operatively coupled between the node and a second
voltage potential; and
wherein the node is operatively coupled to an input of the pulse width
generator.
13. The system of claim 12, wherein the binary counter is a unidirectional
counter.
14. The system of claim 12, wherein the binary counter is an up/down counter.
15. The system of claim 12, wherein each of the plurality of parallel resistors is
binary weighted and includes a base value and a multiplier value.

16. The system of claim 15, wherein the base value is between approximately 100 and 1000 kilohms.
17. The system of claim 12, wherein the timing resistor has a value between approximately 1.0 and 10.0 kilohms.
18. The system of claim 12, wherein the timing capacitor has a value between approximately 0.1 and 10.0 nanofarrads.
19. The system of claim 12, further comprising:
a resistor divider network operatively coupled between the pulse width modulator and the binary counter, the resistor divider network further comprising:
a first resistor connected to the clock signal of the pulse width generator;
a second resistor connected between the first resistor and a third voltage; and
wherein the clock input of the binary counter is operatively coupled between the first and the second resistors.
20. The system of claim 19, wherein the first and second resistors each have a value between approximately 1.0 and 50.0 kilohms.
21. The system of claim 1, further comprising:
a resistor divider coupled between the output of the pulse width modulator and an input of the binary counter.

22. A system for disposing electromagnetic interference associated with a DC-DC converter, the system comprising:
- a power switch for receiving an input power;
 - a filter operatively coupled to the power switch;
 - a pulse width modulator clock control stage operatively coupled to the power switch, the pulse width modulator clock control stage further comprising:
 - a power source;
 - a pulse width modulator coupled to the pulse train source, the pulse width modulator providing a power signal at an output;
 - a binary counter coupled to the pulse width modulator, the binary counter having an input and a plurality of outputs, wherein the pulse train signal at the output of the pulse width modulator is operatively coupled to the input of the binary counter;
 - a plurality of resistors, wherein each of the resistors is operatively coupled to a corresponding output of the binary counter and operatively coupled to a node;
 - a timing resistor operatively coupled between a first voltage potential and the node;
 - a timing capacitor operatively coupled between the node and a second voltage potential; and
 - wherein the node is coupled to an input of the pulse width generator.
23. The system of claim 22, wherein the binary counter is a unidirectional counter.
24. The system of claim 22, wherein the binary counter is an up/down counter.

25. The system of claim 22, wherein each of the plurality of parallel resistors is binary weighted and includes a base value and a multiplier value.
26. The system of claim 22, wherein the base value is between approximately 100 and 1000 kilohms.
27. The system of claim 22, wherein the timing resistor has a value between approximately 1.0 and 10.0 kilohms.
28. The system of claim 22, wherein the timing capacitor has a value between approximately 0.1 and 10.0 nanofarrads.
29. The system of claim 22, further comprising:
a resistor divider network operatively coupled between the pulse width modulator and the binary counter, the resistor divider network further comprising:
a first resistor connected to the clock signal of the pulse width generator;
a second resistor connected between the first resistor and a third voltage; and
wherein the clock input of the binary counter is operatively coupled between the first and the second resistors.
30. The system of claim 29, wherein the first and second resistors of the resistor divider network each have a value between approximately 1.0 and 50.0 kilohms.

31. A method of creating a pulse train signal of a pulse width modulator having a fundamental frequency that is time-varying, the method comprising:
- incrementing a binary count;
 - altering a resistor/capacitor time constant of a resistor/capacitor network based upon an output of the binary count; and
 - creating the pulse train signal whose frequency is based upon the resistor/capacitor time constant.
32. The method of claim 31, wherein the step of altering a resistor/capacitor time constant further comprises:
- operatively coupling a plurality of resistors to an output of a binary counter.
33. The method of claim 31, wherein the step of incrementing a binary count further comprises:
- incrementing a binary count of a binary counter by coupling the pulse train signal from the pulse width modulator to an input of the binary counter.

002790-TE-16560